	L 31426-66 EWP(j) RM	2022
]	ACC NR: AP6023141 SOURCE CODE: PO/0046/66/011/001/0001/0005	
	AUTHOR: Wincel, Henryk-Vintsel', G.; Kecki, ZbigniewKentski, Z.	
	ORG: Department of Radiation Chemistry, Institute of Nuclear Research, Warsaw-Zeran	
	TITIE: Primary processes in radiation chemistry as studied by mass spectrometry. VI. Ion recombination in tetrahydronaphthalene radiolysis in the liquid phase	
	SOURCE: Nukleonika, v. 11, no. 1, 1966, 1-5	
	TOPIC TAGS: radiation chemistry, mass spectrometry, chemical decomposition, ion recombination, electron recombination	
	ABSTRACT: Thermalization of electrons knocked out from the molecules and ion-electron recombination in the tetrahydronaphthalene radiolysis process in the liquid phase are discussed. The G(ion ⁺) value for the time scale 1.92 x 10 ⁻¹³ sec was evaluated to be 0.7. The authors thank Professor, Doctor S. Minc for his interest and help in	
4	this work. Orig. art. has: 1 figure and 9 formulas. [MA]	
	SUB CODE: 07 / SUBM DATE: 260ct65 / ORIG REF: 004 / OTH REF: 009	
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L 09188-67 EWP(j) SOURCE CODE: PO/0046/66/011/005/0307/0317 AP7002749 ACC NR: AUTHOR: Wincel, Henryk-Vintsel', G.; Kecki, Zbigniew-Kentskiy, Z.; Stachowicz, Waclaw-Stakhovich, V.; Mine, Stefan-Mints, S. ORG: Department of Radiation Chemistry, Institute of Nuclear Research, Warsaw-Zeran TITIE: Primary processes in radiation chemistry as studied by mass spectrometry. 36 VII. Mechanism of tetrahydronaphthalene radiolysis in liquid phase SOURCE: Nukleonika, v. 11, no. 5, 1966, 307-317 TOPIC TAGS: radiation chemistry, mass spectrometry ABSTRACT: The mechanism of 1, 2, 3, 4-tetrahydronaphthalene radiolysis in the liquid phase developed on the basis of the recognized elementary radiation-chemical processes is discussed. The calculated yields of molecular products formed as a result of individual elementary processes and their total yields were tabulated. The calculated results were critically compared with experimental data considering the gamma radiolysis of tetrahydronaphthalene. The authors thank Professor, Doctor M. Magat and Doctor J. Durup from the Laboratory of Physical Chemistry, Faculty of Sciences, Orsay, France, for helpful discussions on elementary processes. The authors also thank Mrs. D. Korutkowska and Mr. J. Pachelski for technical assistance. Orig. art. has: 1 figure, 20 formulas and 3 tables. [Orig. art. in Eng.] [NA] ORIG REF: OTH REF: Ol4 29Dec65 SUBM DATE: SUB CODE: 07 7220 0925

KECKI, Zbigniew; WINCEL, Henryk

Primary processes of radiation chemistry as studied by mass spectrometry. Pt. 1. Nukleonika 8 no.2:117-127 '63.

1. Institute of Muclear Research, Department of Radiation Chemistry, Warsaw 9.

L 15699-63 EWP(j)/EFF(c)/BDS AFFTC/ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3006247

P/0046/63/008/004/0215/0223

AUTHOR: Wincel, Henryk; Kecki, Zbignev

67

TITLE: Primary processes in radiation chemistry as studied by mass spectrometry. II. The structure of $C_7H_7^+$ and $C_8H_8^+$ ions from tetrahydronaphthalene in the gas phase

SOURCE: Nukleonika, v. 8, no. 4, 1963, 215-223

TOPIC TAGS: tetrahydronaphthalene ion, tropylium ion, dissociated ion structure, undissociated ion structure

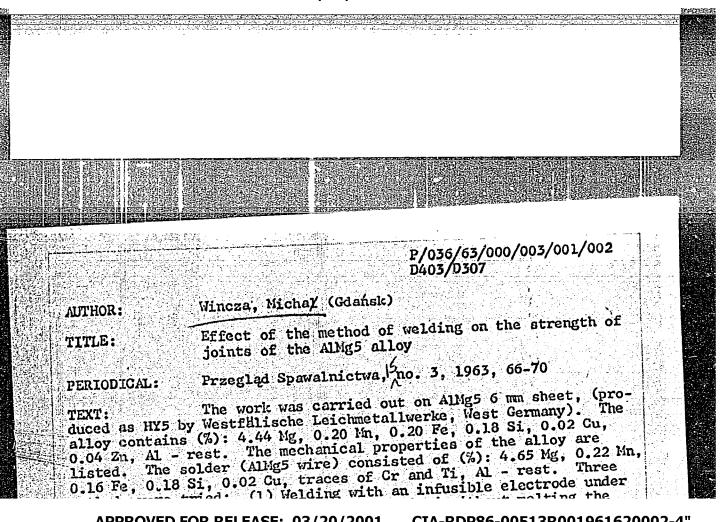
ABSTRACT: The potential at which the C₇H₇ and C₈H₈ ions are produced from tetrahydronaphthalene by electron collision has been measured, and their heat of formation has been estimated. The measurements show that C₇H₇ ions, whether at the threshold energy of formation or at higher energies, have a symmetric tropylium structure. The structure of C₈H₈ ions differs according to their energy state; they are styrene and/or o-quinodimethane ions at their lowest excited state and cyclooctatetraene ions at the highest excited state. Nothing about the quantitative ratio of these ions nor the rearrangement of styrene or

Card 1/2

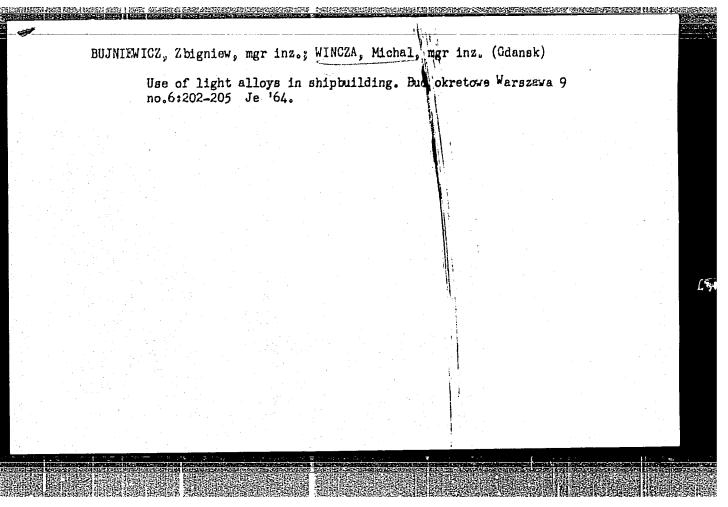
L 15699-63 ACCESSION NR: AP3006247			
o-quinodimathane ions to for the can only be assumed that energy of $C_8H_8^+$ decomposition which considerably exceeds that the rearrangement to a tion when an active complex professor Dr. S. Minc. for the confessor Dr. Minc. for the confessor Dr. Minc. for the confessor Dr. Mi	orm cycloctatetraene can be deci t the rearrangement takes place f on. If a tetrahydronaphthalene m the threshold energy of C ₈ H ₈ for an eight-membered ring takes place a 1s formed. "The authors express his guidance and encouragement and issions." Orig. art. has: 1 fig	ar below the threshold collecule has an energy motion, it is possible e during the dissociation thanks to	
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	Radiation Chemistry, Institute		
		of Nuclear Research,	
SSOCIATION: Department of arsay URMITTED: 30Dec62	Radiation Chemistry, Institute of		
ASSOCIATION: Department of Margay	Radiation Chemistry, I <u>nstitute o</u>	of Nuclear Research, ENCL: 00	

Studies on the possibility of utilizing 2-Methylnaphthalene in the synthesis of dyes. Pt. 3. Chemia stosow A 8 no.3:295-303 '64.

1. Department of Dyes of the Lodz Technical University.



Effect of the method out the weld root, on a support welding (for comparative purposith methods (lc) and (ld), to ods (2) and (3) are less precoff the weld, and (3) to defor by the solder. There are 6 if	while (la) wallictable; (2	s least succes) leads to mic	3) Acetylene ere obtained	
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WINCZA, Michal, mgr inz. (Gdansk)

Influence of shifting the edges of AlMg5 alloy steel sheet

Influence of shifting the edges of AlMg5 alloy steel sheets on the strength of welded joints. Przegl spaw 16 no.6:151-152 Je '64.

BUJNIEWICZ, Zbigniew, mgr inz.; WINCZA, Michal, mgr inz. (Gdansk)

Production of welded ship structures of light alloys. End okretowe Wartzawa 10 no.115-18 Ja '65.

WINCZA, Michal, mgr inz.; BUJNIEWICZ, Zbigniew, mgr inz.

Automation of welding light alloy structures. Przegl spaw 17 no.4:98-102 Ap '65.

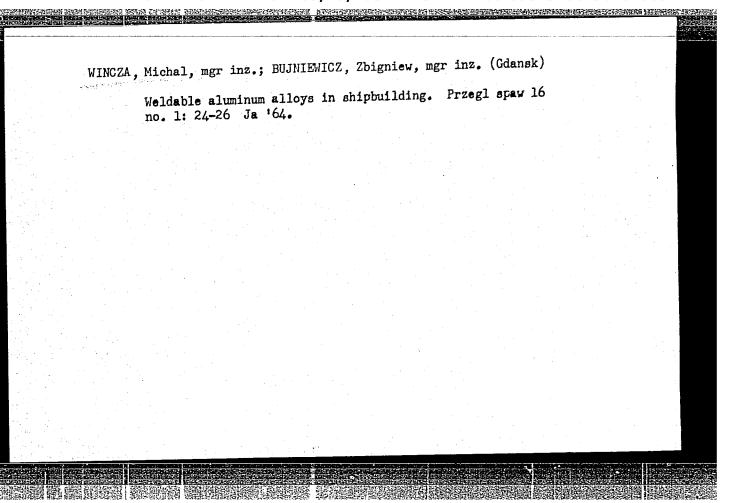
WINCZAKIEWICA, A.; PIELA, W.; PODGLODEK, T.

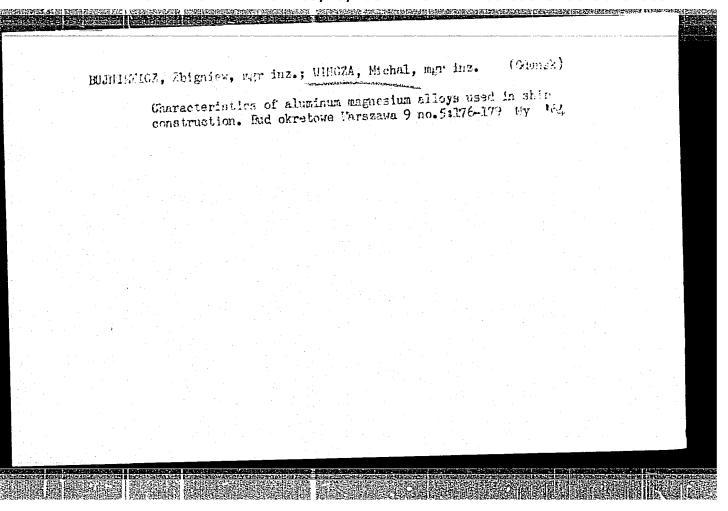
A contribution on the determination of B- and Y-cellulose in rayon-cellulose pulps. p. 693.

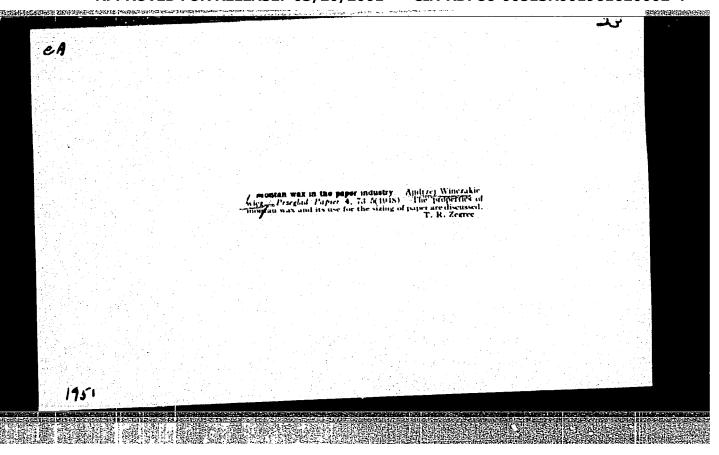
CHEMIA ANALITYCZNA. (Komisja Analitczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland, Vol. 3, no. 3/4 1958.

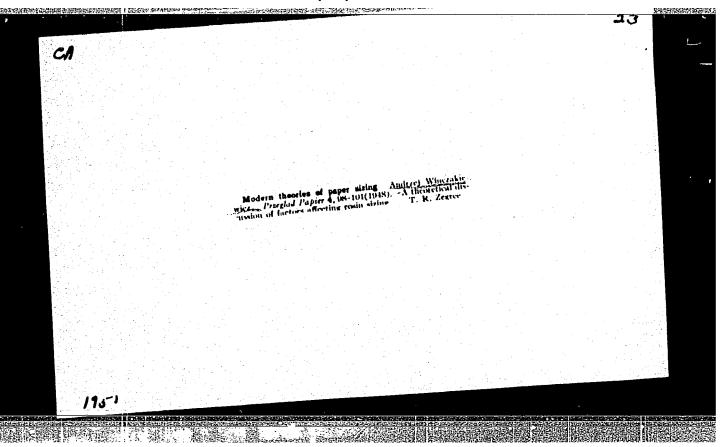
Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

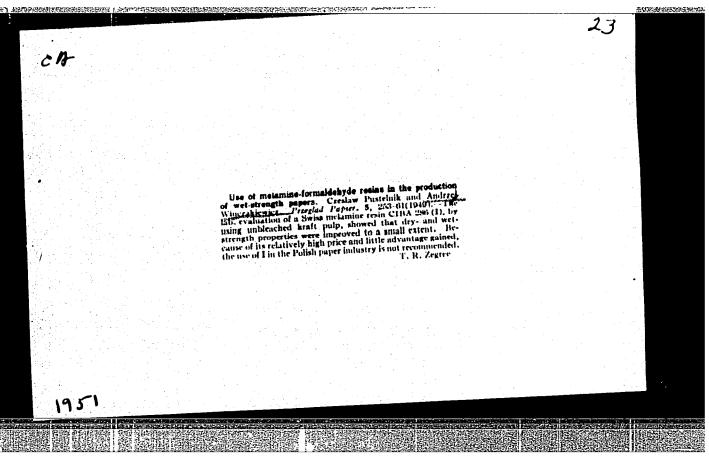
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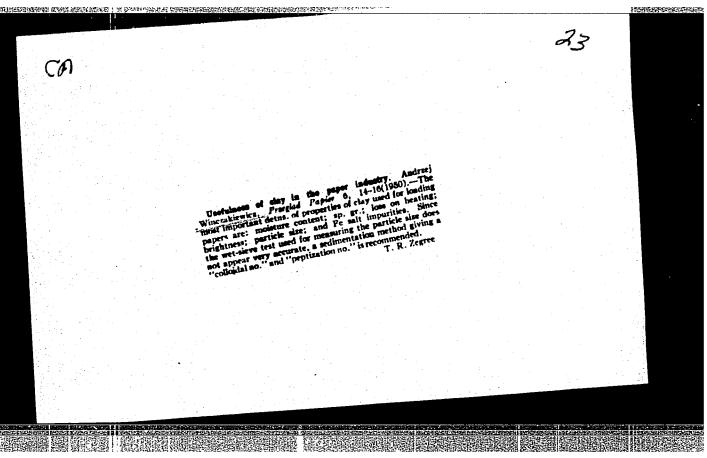
WINCZAKIEWICZ, 1)

Winczakiewicz A.

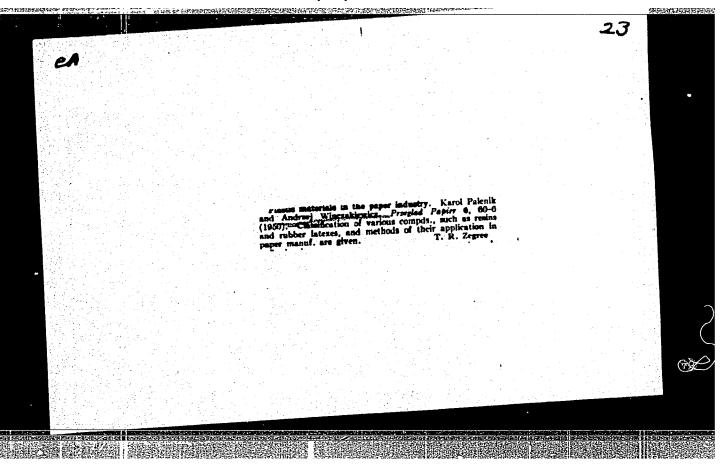
Winczakiewicz A., Eng. "Paper Dyeing." (Earwienie papieru.) Przeglad Papierniczy, No. 3, 1950, pp. 79-84, 2 figs., 1 tab.

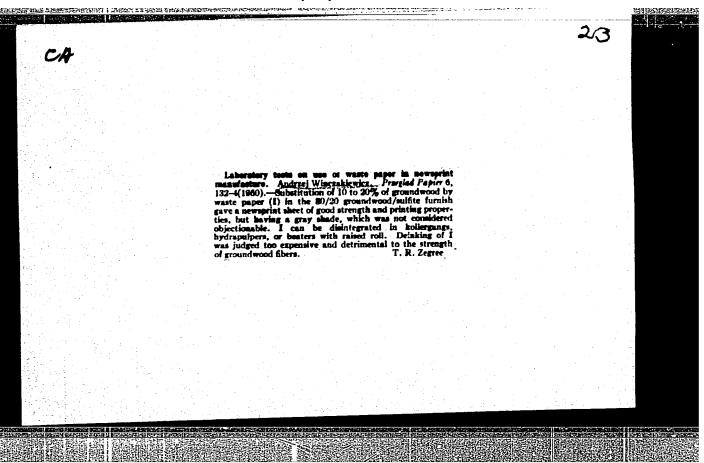
Classification of dyes used in paper manufacture. The theory of dyeing. Methods of dyeing: a) in the pulp, b) by immersion, c) by printing or coating. Factors influencing the process of dyeing: 1) fillers, 2) the pH-value of paper pulp, 3) the chemical nature of paper pulp, 4) temperature, 5) water, 6) adhesive, 7) rate of glutination, 8) calendering. Equipment of the dye shop. Impediments in dyeing. Laboratory testing of dyes.

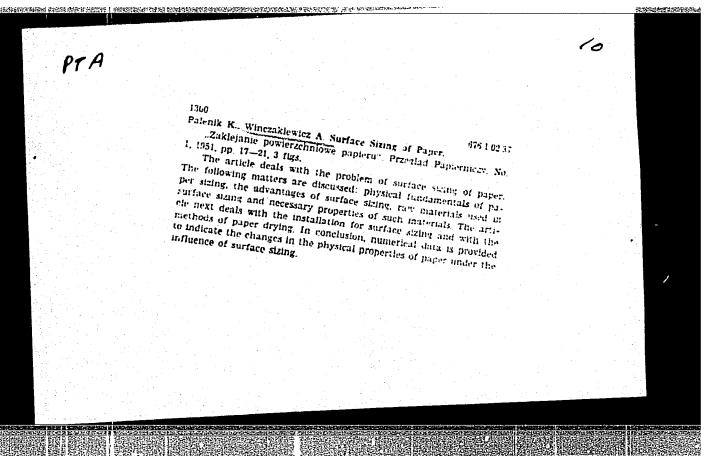
SO: Polish Technical Abstracts - No. 2, 1951

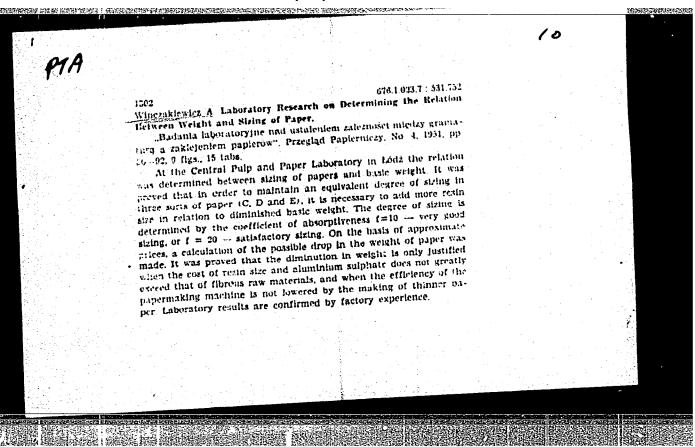


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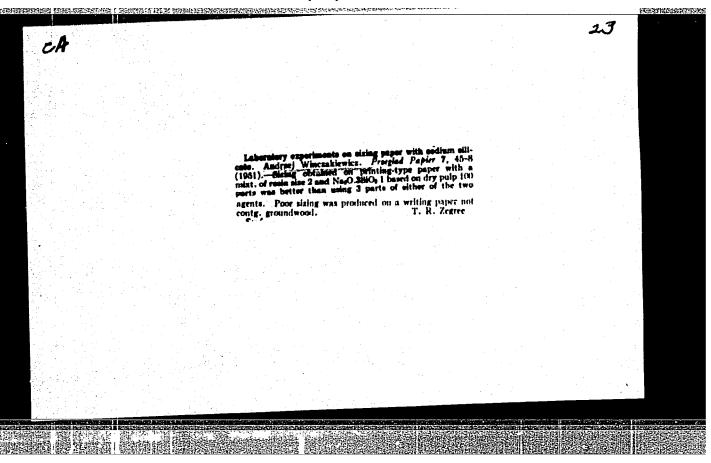




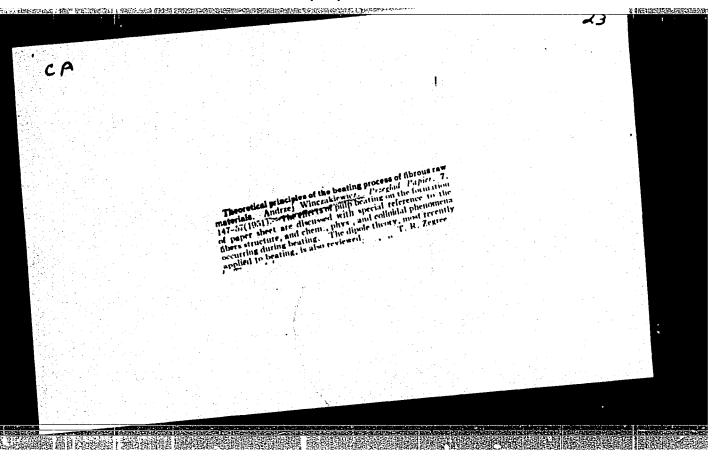




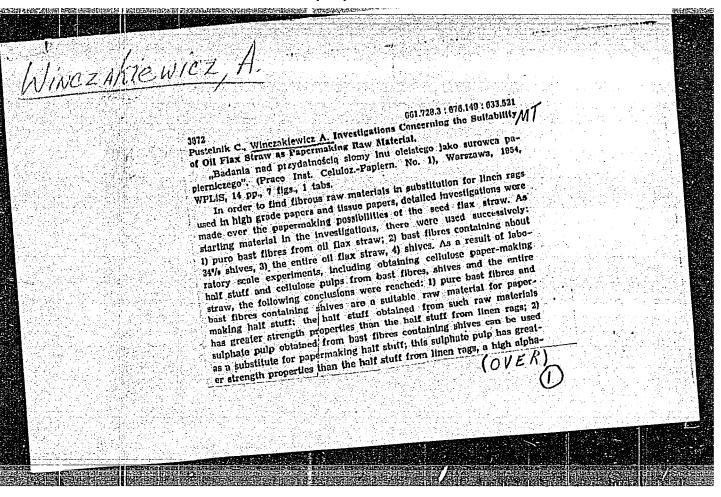
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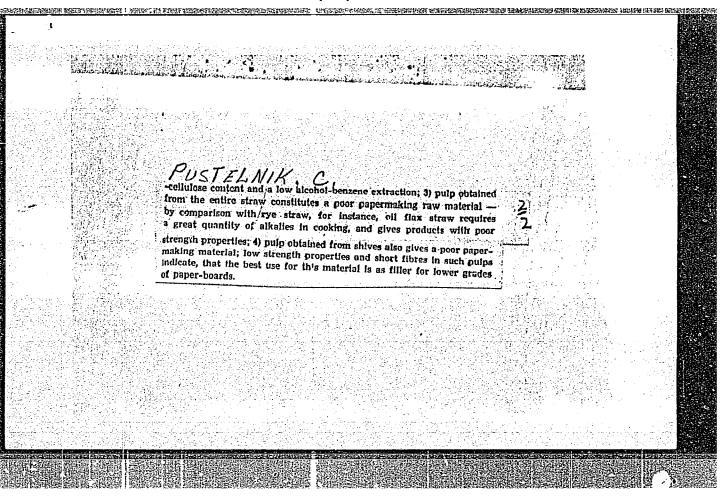


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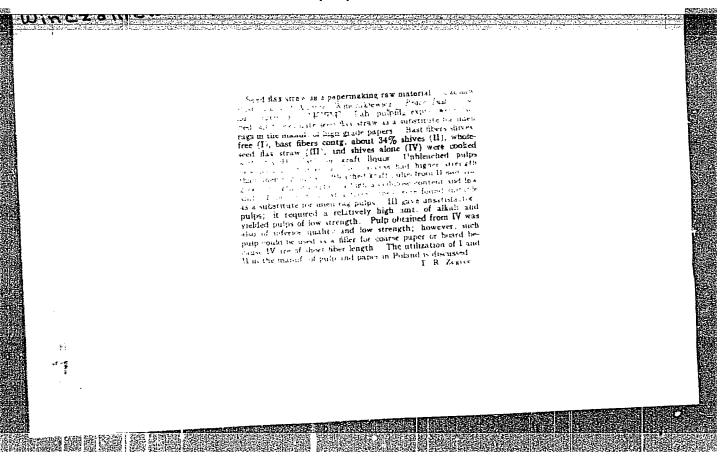


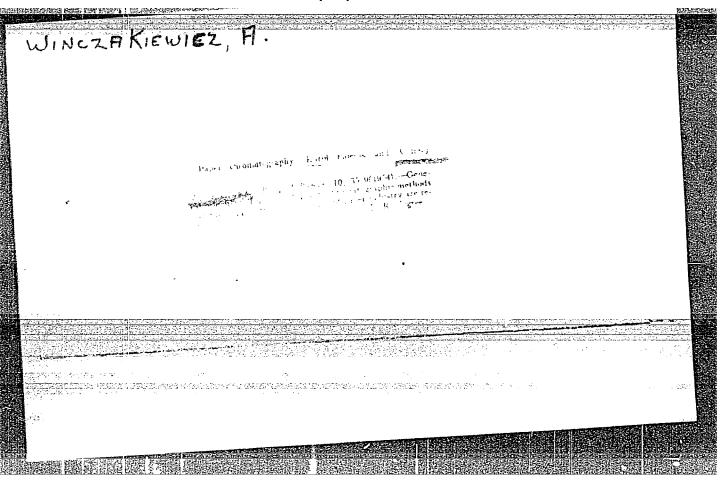
WINCZAKIEWICZ, A. Palenik K., Winezakiewicz A. New Chemical Auxiliary Products in the Polish Technical Abst. "Nowe chemiczne środki pomocnicze w przemyśle pupierniczym". Paper Industry. No. 4, 1953 Chemistry and Chemical Przeglid Paplerniczy, No. 1, 1933, pp 12-18. This article deals with auxiliary chemical media used in paper manufacture (anti-froth and dispossing media); media for imparting Technology special properties to the paper produced (beerwax coulsions, insecticides, water - probling, water - tightening, fire-probling, anti-corrosion media etc); media for impreving the whiteness of the paper (leucophors - blancophors); media for fixing acids, basic and direct dyes; and media for ch'ain'ng uniformity of colouring. Methods of adding such media to the paper substance.

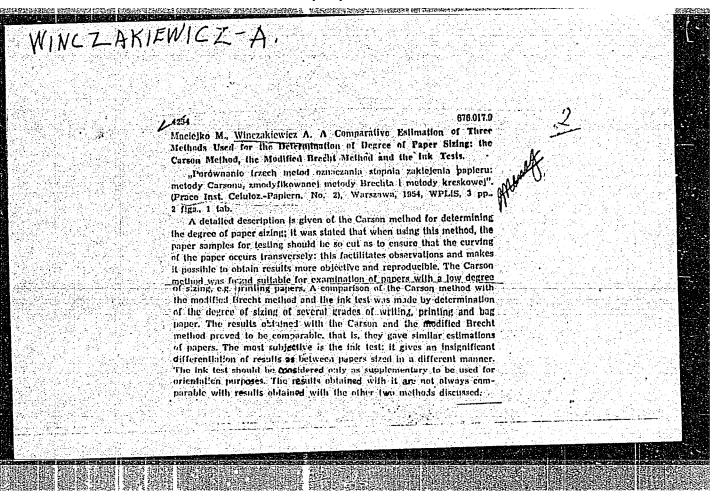


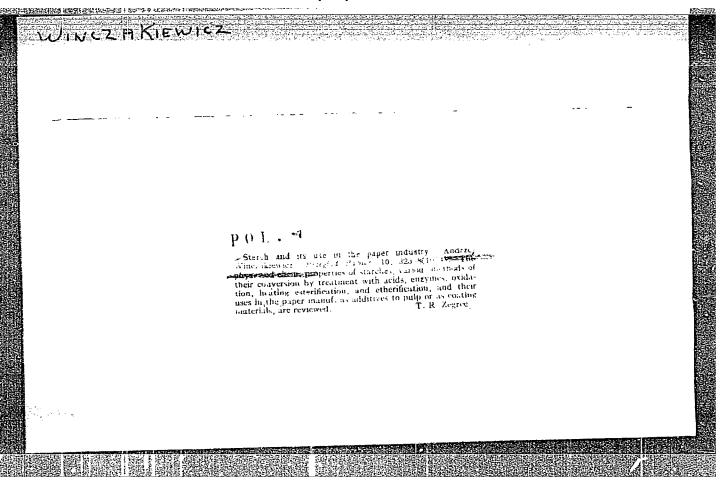


Winczahle wic	Maciello M., Winczekiewicz A. Determination of Water Permeability in Money Paper. "Oznaczanie przeptiszczalności wody przez papier". (Prace Inst. Celuloz-Papiern. No. 1), Warszawa, 1954, WPLIS, 3 pp., 2 figs., 2 tabs. A description is given of an analytical method for determination of vater permeability in paper by means of a Schopper apparatus. The method consists in measuring the amount of water passing through 100 cm² of the paper tested in normalized conditions. To the instruction for performing the analysis are added the results of water permeability tests made in respect of a certain number of papers, cardboards and blotting papers. The authors found a close inter-relationship between water permeability and bulk density, between sizing degree and basis weight. The method described is better suited to festing papers of high water permeability. (Illiration papers for instance) than papers of low water permeability. A scheme is proposed for classification of papers and cardboards by reference to their water permeability.	









WINCZAKIEWICZ, A.

Poland/Chemical Technology. Chemical Products and Their Application -- Wood chemistry

products. Cellulose and its manufacture. Paper, I-23

en postulo estrupter de la proposición de la proposición de la proposición de la proposición de la proposición

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6290

Author: Winczakiewicz, Andrzej

Institution: None

Title: Combined Milling

Original

Publication: Przegl. papiern., 1954, 10, No 11, 335-337

Abstract: Description of laboratory experiments on milling of pulp for the pro-

duction of paper of the required quality by combining two batches of pulp of different degree of milling. Blotting paper $(100~{\rm g/m^2})$ was made, from sulfite spruce cellulose, the absorption capacity of which exceeds 60 mm/10 m, and the breaking length is of 1,200 m. The best composition is a mixture of 15% pulp milled to 80° ShR with 85% of

unmilled pulp.

Card 1/1

WINCZAKIEWICZ, ANDRZEJ

Poland/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63374

Author: Winczakiewicz, Andrzej

Institution: None

Title: Fiber Structure in the Light of Recent Investigations

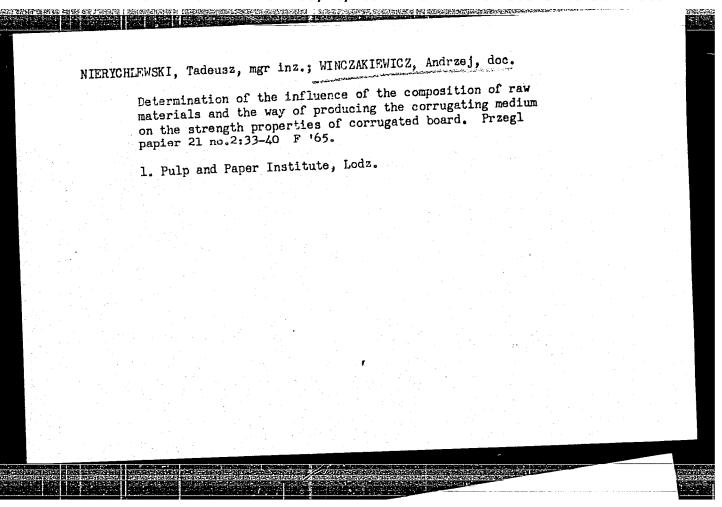
Original

Budowa wlokna w swietle nowych badan, Przegl. papiern, 1955, 11, Periodical:

No 6, 161-165; Polish; Russian and English resumes

Abstract: None

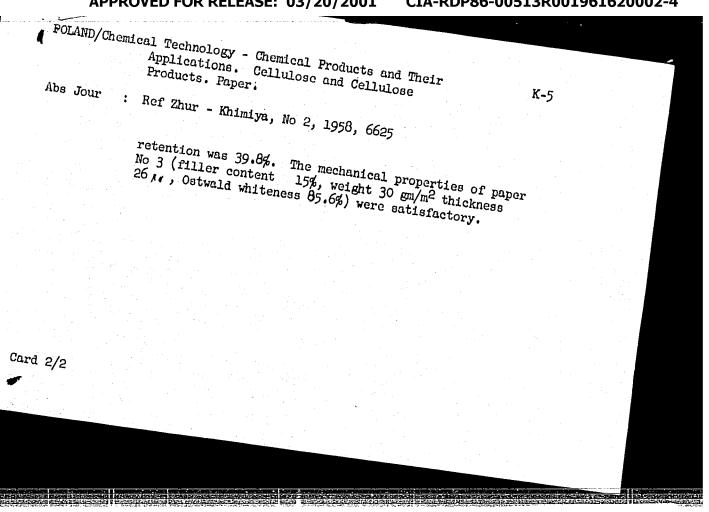
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CIA-RDP86-00513R001961620002-4

"APPROVED FOR RELEASE: 03/20/2001 WINCZAKIENICZ K-5 POLAND/Chemical Technology - Chemical Products and Their Chemical Products and Cellulose Products.

Applications - Cellulose and Cellulose Products. . Ref Zhur - Khimiya, No 2, 1958, 6625 Laboratory Investigations on the Use of Zinc White as Makowska, Winczakiewicz Abs Jour Prace Inst. celul.-papiern., 1956, 5, No 1, 31-37 Author Inst Title On laboratory equipment, a number of test sheets of paper No 1, 2, and 3 weighing 30 gm/m2 filled with zinc (2 types) and titenium whites in such amounts that the (2 types) and titanium whites in such amounts that the Orig Pub ash content of the finished product be 15% were prepared. when the paper was sized with 26 of resin with 16 starch when the paper was sized which con the resin sizing, added, the filler being added first, then the resin sizing, the starch and the climinum sulfate colution the filler Abstract the starch, and the aluminum sulfate solution, the filler Card 1/2



WINCZAKIEWICZ, A.

WINCZAKIEWICZ, A. Cellulose and Paper Institute in Peking. p. 260

Vol. 12, no. 9, Sept 1956

FRZEGIAD PAPIERNICZY

TECHNOLCGY

Lodz, Poland

So: East European Accession Vol. 6, no. 2, 1957

WINCZAKIENICZ, A.

Tsai-Lun, the inventor of paper.

P. 124. (PRZEGLAD PAPIERNICZY) (Lodz, Poland) Vol. 13, no. 4, Apr. 1957

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

POLAND/Chemical Technology. Chemical Products and Their Uses. Part IV. Cellulose and Its H Derivatives. Paper.

Abs Jour: Ref Zhur-Khimiya, No 15, 1958, 52353

: Winczakiewicz, Andrzej Author

Production of Paper Used for the Proparation of Micanite Cambric and Micanite Paper Inst Title

(for Electrical Insulants).

Orig Pub: Przegl. papiern., 1957, 13, No 4, 127-128

Abstract : A description of laboratory and factory experiments dealing with electrical insulating paper, and consisting of the paper's pulverization and starch glue treatment. The paper's properties depend on the processing

: 1/2 Card

166

CIA-RDP86-00513R001961620002-4" **APPROVED FOR RELEASE: 03/20/2001**

POLAND/Chemical Technology. Chemical Products and Their Uses. Part IV. Collulose and Its Derivatives. Paper.

Abs Jour: Ref Zhur-Khimiya, No 15, 1958, 52353

conditions. Physical and chemical properties of the paper were listed. -- Ya. Shteynberg

Card : 2/2

WINGZAKIEWICZ, A

The Isogrand method.

P. 129 (PRZEGLAD PAPIERNICZY) (Lodz, Poland) Vol. 13, no 5, May 1957

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5. 1958

POLAND/Chemical Technology. Chemical Products and H
Their Uses. Part IV. Collulose and Its

Derivatives. Paper.

Abs Jour: Ref Zhur-Khimiya, No 15, 1958, 52351

Author : Winczakiewicz, Andrzej

Inst

Title : ChineserTissue.

Orig Pub : Przegl. papiern., 1957, 13, No 6, 165-169

Abstract : Production data for a Chinese paper plant in

Hangchow were presented. This type of paper is called Japanese tissue in Poland. Reference to it as Chinese tissue in the future is proposed. -- From the author's resume.

Card : 1/1

 \mathbf{H} : POLAND Country Category 44406 Abs. Jour : Winczakiewicz, A. Author : The Problem of Determining Solubility of Institut. ritle Celluloso in Alkalies : Przegl. papiern., 1958, 14, No 2, 58-41 Orig Pub. : Results of studies conducted in accordance with a plan of the International Committee Abstract on Cellulose analysis (ICCA), on verification and comparison of three methods for determining solubility of cellulose (C) in NaOH:
Swedish CCA: 8-55, Cerman IV/29B/55, and Canadian G-21-56. Testing was conducted on 8 samples of C of differing characteristics. Solubility was determined in 10, 18, and 21.5% MaOH solutions (I). Mercerization time of 30 and 60 minutes. In the same samples Jard: 1/1

Polend H-33 CATEGORY ABS. JOUR.: RZKhim., No. 20 1959, No. 73457 AUTHOR : Piela, W.; Fodglodek, T.; Winczakiewicz, INST. Determination of Beta- and Gamma-Cellulose in Cellulose Intended for Synthetic Fiber TITLE ORIG. PUB.: Chem. analit., 1958, 3, No 3-4, 693-697 ABSTRACT : A comparison is made of four methods of determination of beta- and gamma-cellulose: the classical method of Cross-Bevan, Swedish Standard CCA-10-1941, the Czech Standard CSN-50-02f1-1955, and the Swedish modified method. Advantages and disadvantages of these methods are noted. The Swedish method, which has its advantages, is reconnended for quality control of cellulose intended for synthetic fiber. The experiments were conducted with three different specimens of cellulose having different analytic characteristics. CARD: 1/1

COUNTRY POLAND Chemical Technology. Chemical Products and Their CATEGORY Applications. Cellulose and Its Derivatives. Paper

: RZhKhim., No 17, 1959, No. 63076 ABS. JOUR.

Gzylewski, J.; Minczakiewicz, A. ROHTUA

INSTITUTE

: Electrotechnical Presspahn TITLE

: Przegl. papiern., 1959, 15, Nol, 12-16 ORIG. PUB.

Presented are requirements for electrochemical ABSTRACT

Prosspahn (mechanical, physical, chemical, and electrical properties.). Characteristics of Prosspahn made in the GDR, Sweden and Switzerland are compared. Described is the presentday condition of Presspahn production in the

Polish Democratic Republic.

From the author's resume.

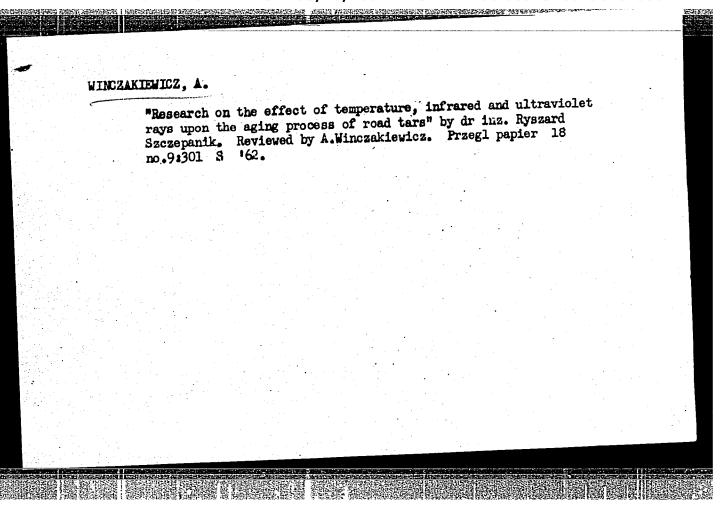
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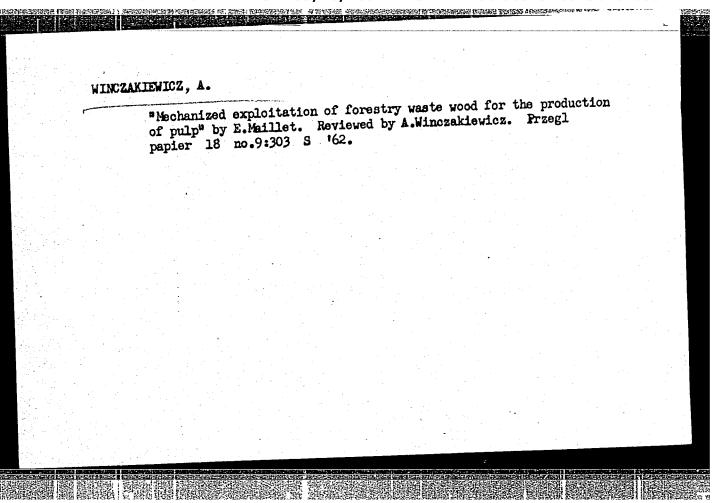
H - 153

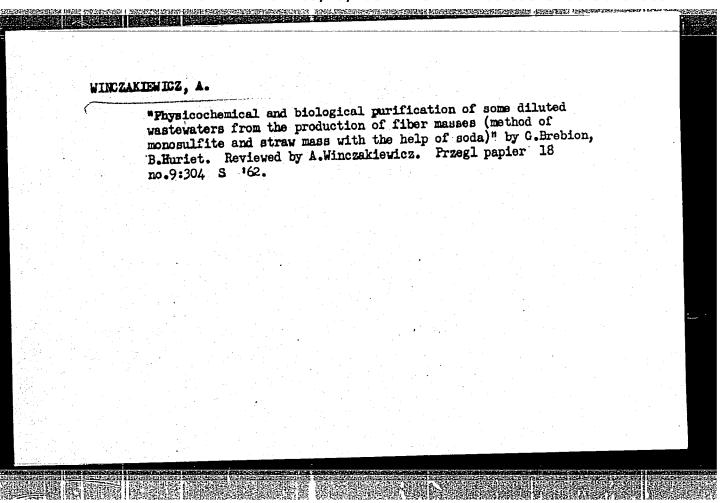
MIERICHIEWSKI, Tadeusz, mgr. 182; WINCZAKIEWICZ, Andrzej, doc.

Studies on the determination of the scattering results of calculating the strength properties of sheets formed on a Rapid-Koethen apparatus from chemical pulps ground in a Jokro mill. Przegl papier 18 no.8:241-246 Ag '62.

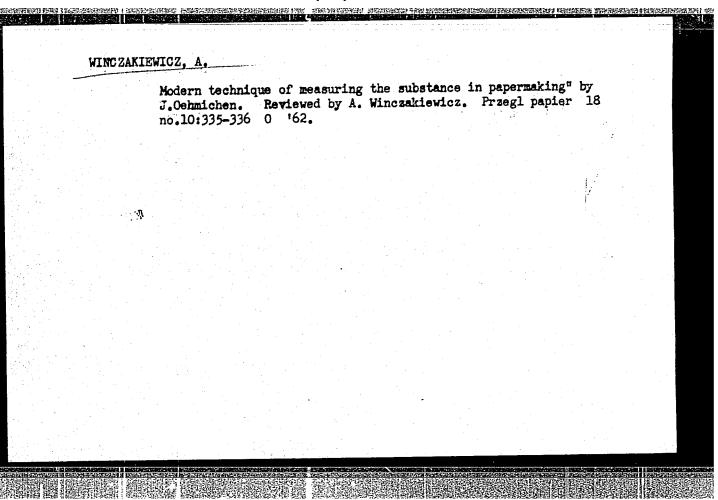
1. Instytut Celulozowo-Papierniczy, Lodz.

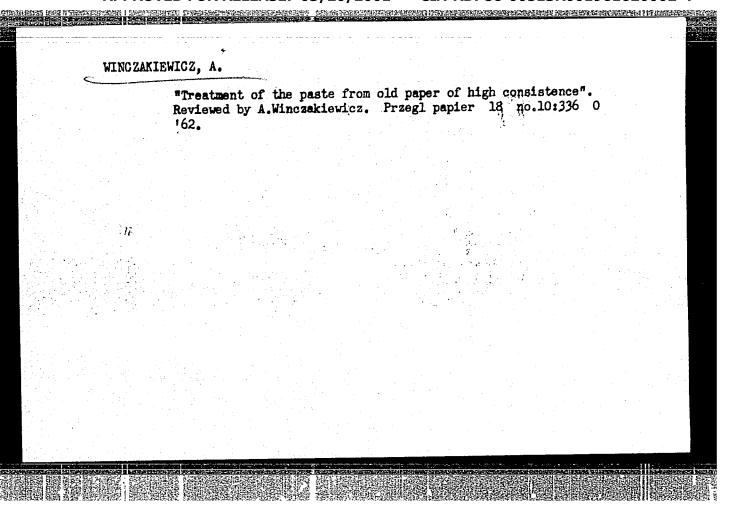


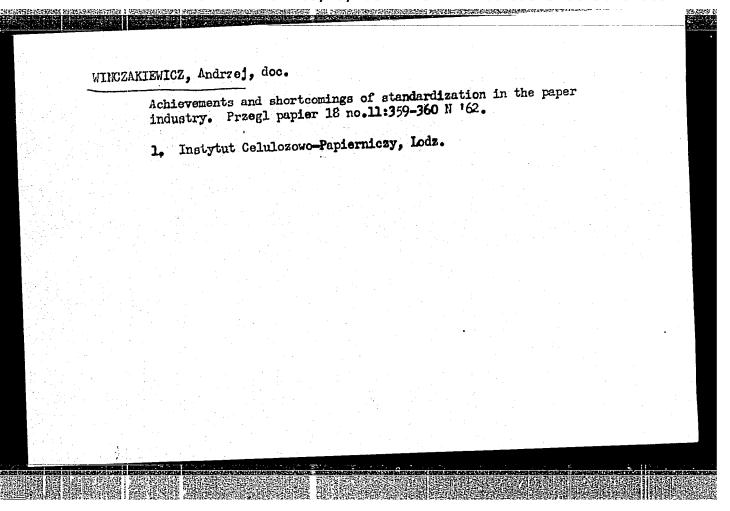


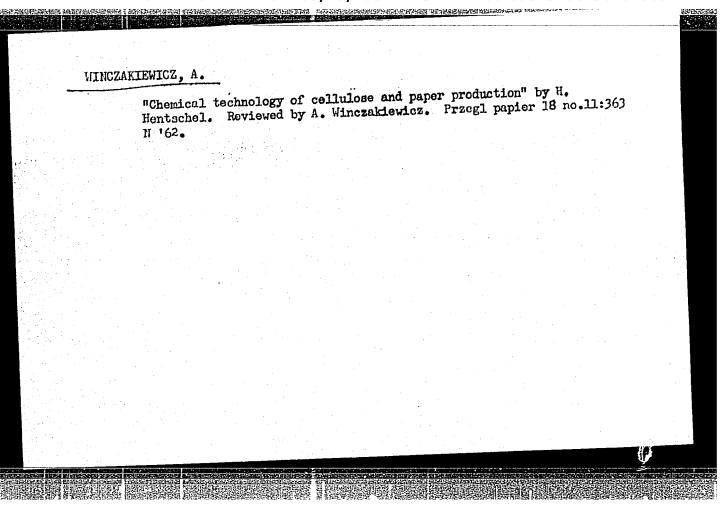


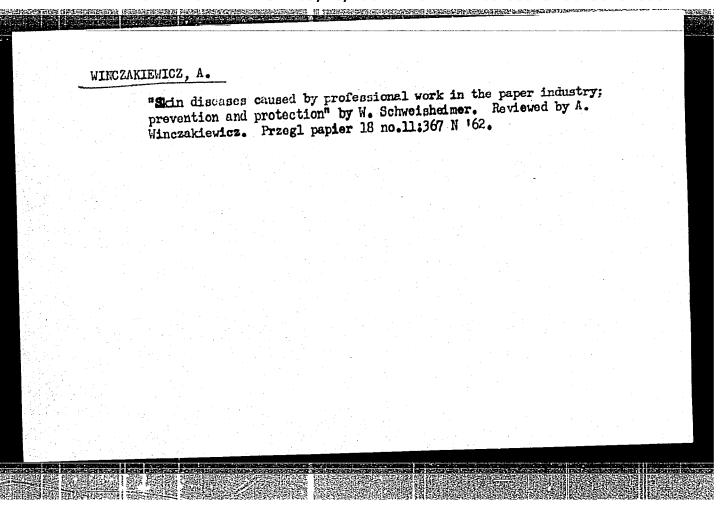
WINCZAKIEWICZ, Andrzej, doc.
 Paper for notebooks. Przegl papier 18 no.10:320-323 0 '62.
1. Instytut Celulozowo-Papierniczy, Lodz.

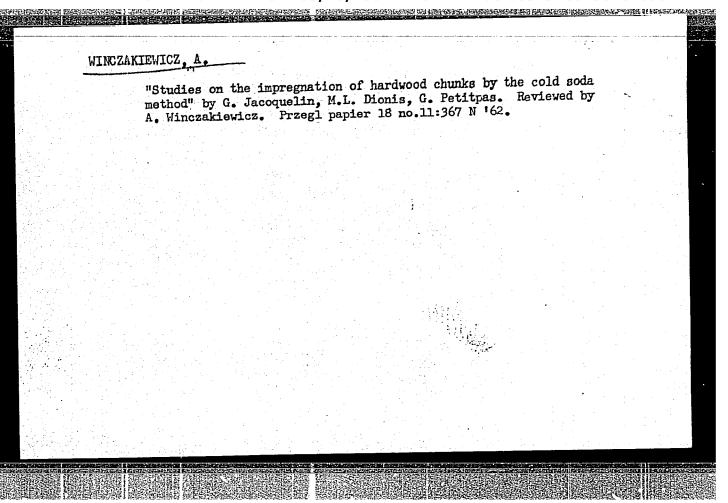


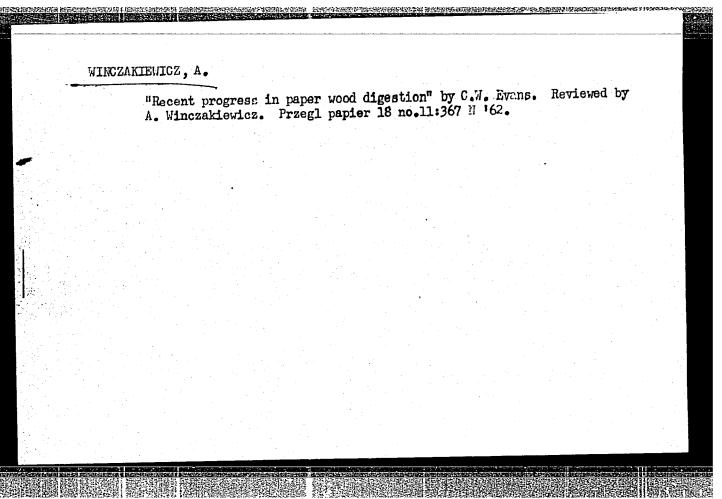


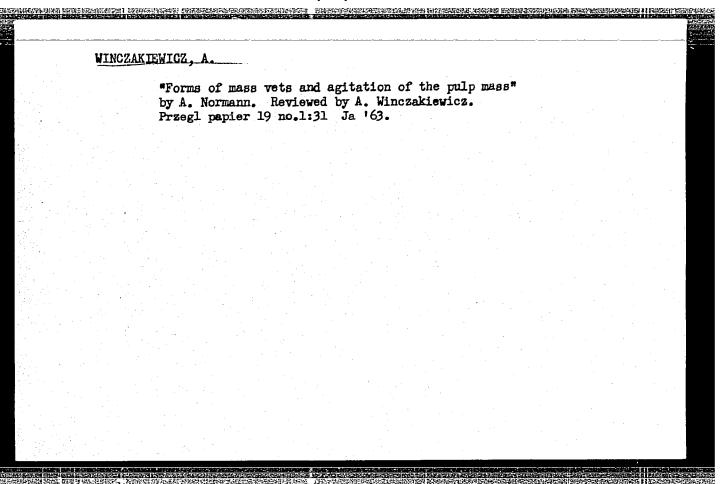






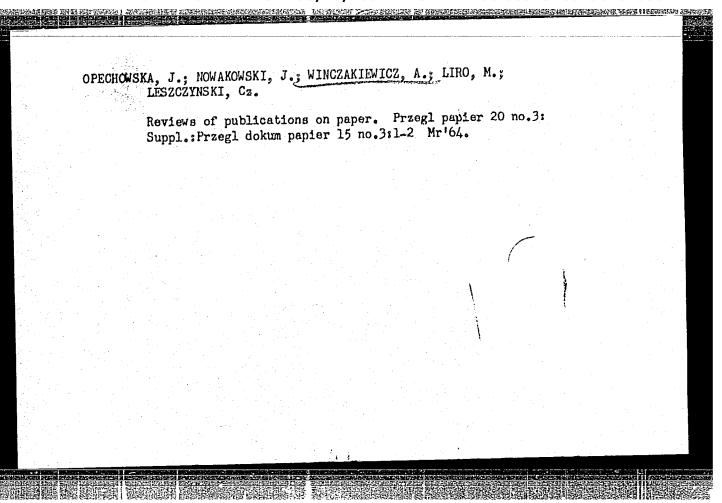






LIRO, M.; CZUERYT, J.; LESZCZYNSKI, Cz.; WINCZAKIEWICZ, A.; OPECHOWSKA, A.

Review of publications. Przegl papier 20 no.2:Suppl.:
Przegl dokum papier 15 no.2:63-64 F'64.



1. Pulp and Paper Institute, Lodz.	and the state of t	Can hemp oskum be used in the production of digaret tissue paper? Przegl papier 20 no.6:194-197 Je '64.	
		1. Pulp and Paper Institute, Lodz.	

NIERYCHLEWSKI, Tadeusz, mgr inz.; WINCZAKIEWICZ, Andrzej, doc.

Determination of the influence of the quality of uncorrugated plies on the strength properties of corrugated board. Przegl papier 20 no.3:65-70 Mr'64.

WINCZO, J. In the interest of the gliding sport. p. 3. (SKRZYDLATA POLSKA, Marszawa, Vol. 11, No. 3, Feb. 1955) SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

CZECHOSLOVAKIA/Nuclear Physics - General

C-1

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 7625

: Winde Bertrem Author

: Not Given Inst Title

: Nuclear Research and Nuclear Engineering in the German Demo-

cratic Republic

Orig Pub: Jaderna energie, 1957, 3, No 8, 248-252

Abstract : No abstract

Card : 1/1

> CIA-RDP86-00513R001961620002-4" APPROVED FOR RELEASE: 03/20/2001

MINDMOIC, I.

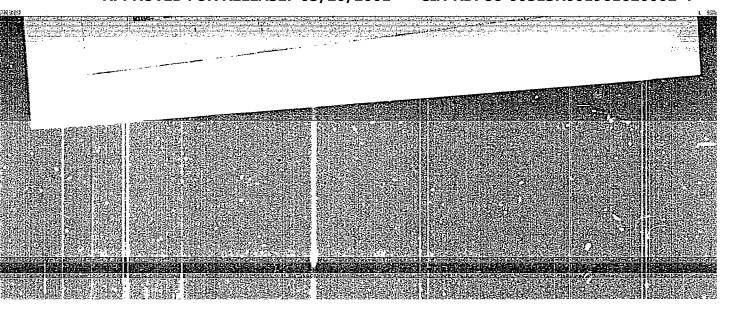
Reconnaissance of the moon.

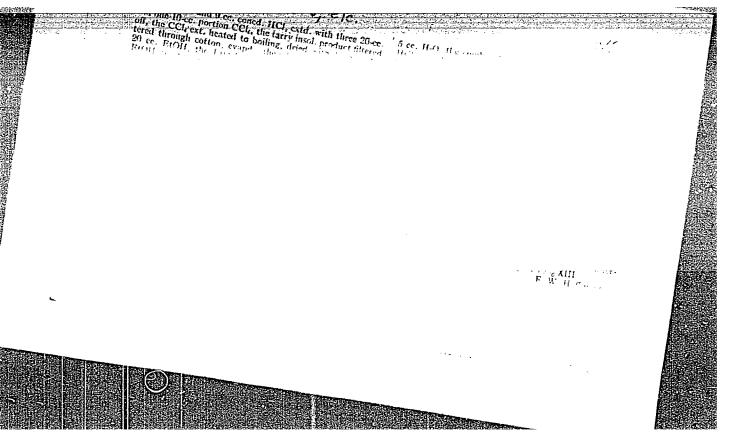
p. 6 (Zolnierz Polski, No. 27, Nov. 1957. Warszawa, Poland)

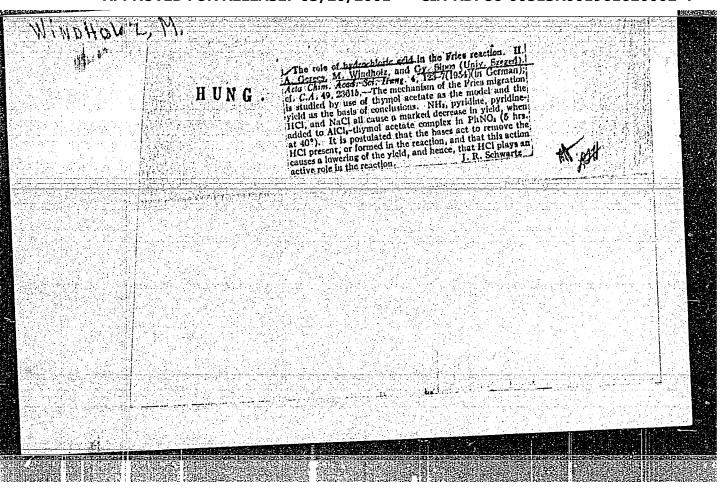
Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,

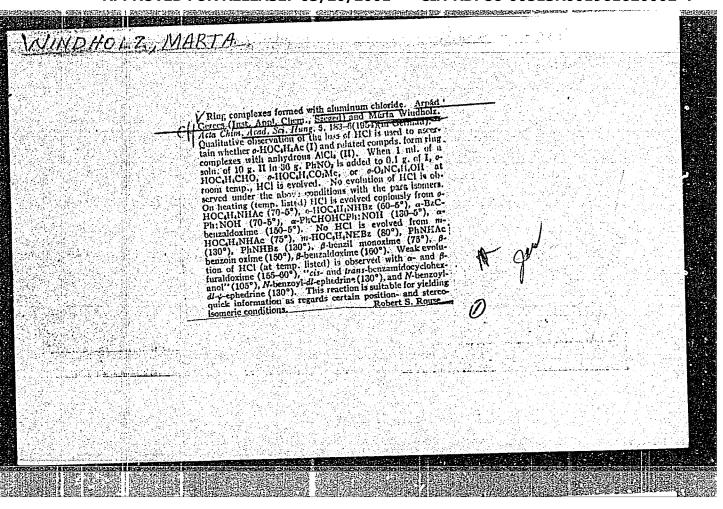
February 1958

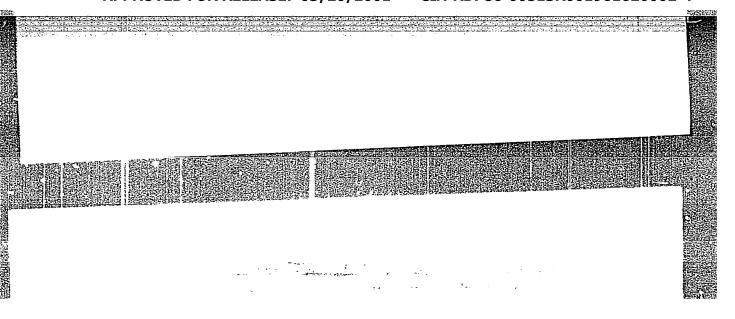
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	36. Syntheses from feirahydrofurfuryl alcohol. (In Chriman) L. Grover S. M. Windholz. Acta Chinica Acidemiae L. Grover S. M. Windholz. Acta Chinica Acidemiae	
	Second derivatives of 5-chlorovaleranitrio have been prepared in order to obtain monomers suitable for polyestor prepared in order to obtain monomers suitable for polyestor prepared in the components. In the components were prepared: 5-(R)-valeranitribs (where ing components were prepared: 5-(R)-valeranitribs (where the furturyloxy; p-oxyphenoxy) or 2-oxyethoxy group). It = furturyloxy; p-oxyphenoxy; p-oxyphenoxy; or 2-oxymans; (where R = furturyloxy; p-oxyphenoxy; or 2-oxymans; (where R = furturyloxy; p-oxyphenoxy; or 2-oxymans; firstly bydrouning di-(4-R-n-butyl)-others	
	(where R = CN, COOH or COOCH)	

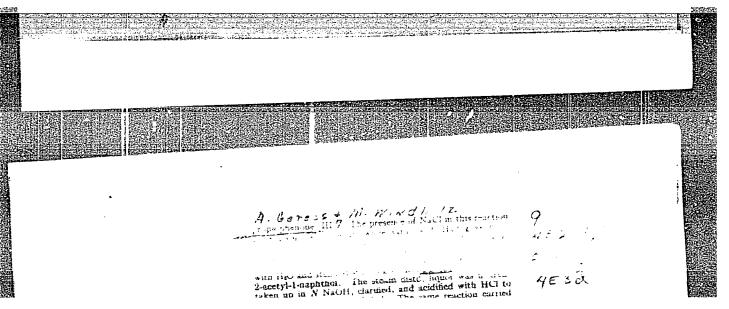


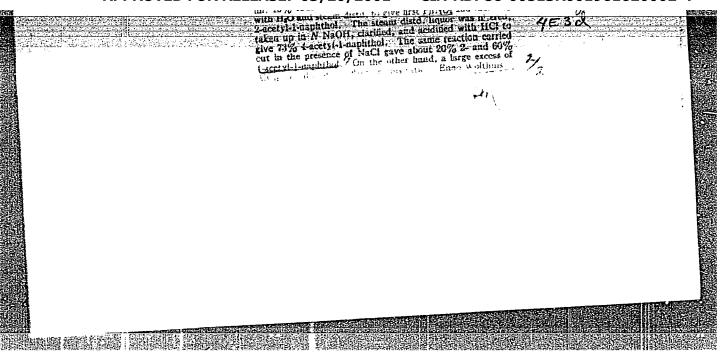


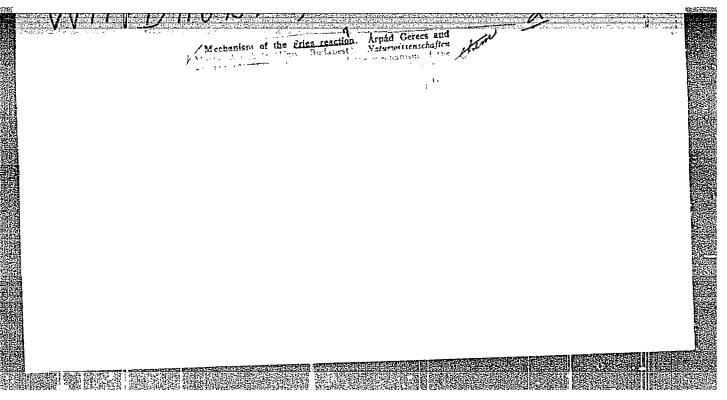












WINDHOLZ M.

HUNGARY / Organic Chemistry. Natural Substances and Their Synthetic Analogues:

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61055.

Author : A. Gerecs, M. Windholz.
Inst : Academy of Sciences of Hungary.

Preparation of Some Derivatives of Glucopyranosylbenzene (Brief Report). Title

Orig Pub: Acta chim. Acad. sci. hung., 1957, 13, No 1-2,

231-232.

Abstract: The previously described nitration conditions of tetraacetyl- \(\beta \)-D-glucopyranosylbenzene (I) (Craig

J. M., Bonner W. A., J. Amer. Chem. Soc., 1950, 72, 4808) (tetraacety1- β -D-glucopyranosy1 = TAGP)

Card 1/3

HUNGARY / Organic Chemistry. Natural Substances and Grant Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61055.

Abstract: having been somewhat altered, together with n-TAGP (II) also o-nitroisomer thereof (III) was obtained. 100 g of Cu(NO₃).3H₂O is added to the solution of 20 g of I in 320 ml of (CH₃CO)₂O (40°, 30 min.) and is left to age (40°, 7 hours). The solution of the reaction mixture in 800 ml of water is extracted with ethylacetate and II is obtained, yield 21.8%, melting point 161 to 163° (from absolute alcohol), and from the mother liquor of III - yield 7%, melting point 118 to 119°. The catalitic reduction of II (4 g in 160 ml of absolute alcohol + 0.5 g of Pd/C) results in n-TAGP-aniline (IV), yield 92.5%, melting point 156 to 157.5°. n-TAGP-acetanilide (V) was prepared by acetylizing

Card 2/3

49

HUNGARY / Organic Chemistry. Natural Substances and G Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61055.

Abstract: IV, yield 79%, melting point 148 to 150°. Diacety-ation of V (5.32 g in 210 ml of absolute CH₃OH + + 15 ml of 0.1 n. CH₃ONa, 2 days, about 20°) results in n-(β-D-glucopyranosyl)-acetanilide, yield 63%, melting point 191 to 192.5 (from iso-amyl alcohol with drying on P₂O₅). n-TAGP-(n'-acetamido)-benzenesulfamidobenzene was prepared from 2.74 impure IV in 25 ml of C₅H₅N (0°) + 1.51 g of n-Ch₃CONHC₆H₄SO₂Cl, yield 84%, melting point 220 to 221° [from dilute acetone, after which from (CH₃CO)₂O].

Card 3/3

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4688.

: Hungarian Academy of Sciences. L. E. Tuos Univ., Buda Pesti : Syntheses Rused on Potrobuda. Author : Gerecs, A. and Windholz, M.

: Syntheses Based on Tetrahydrofurfurol. I, II. Inst

Title

Orig Pub: Acta Chin Acad Hung., 14, No 3-4, 333-338, 417-420 (1958)

(in German with Surmaries in English and Russian).

Abstract: I. The possibility of obtaining nononers suitable for the production of synthetic fibers from 2,3-dihydropyran (I) has been investigated. The reaction of I with NH, OH. HCl is accompanied by hydrolysis followed by the conversion of the intermediate HO(CH2) CHO (II) which is formed to the oxime (III); the latter is also obtained directly from II. The action of (CH3CO)20 (IV)

on II gives 2-acetoxytetrahydropyran (V) (also obtained

: 1/8 Card

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Abs Jour: Ref Zhur-Khin., No 2, 1959, 4688.

from I and IV), whereas the acetylation of III with excess IV in pyridine (~ 20°) gives CH₂COO(CH₂) 4 CH=NOCOCH₃ (VI), which is formed together with the previously noncharacterized CH₂COO(CH₂) 4 CN (VII), obtained by heating II in a solution of IV or by the action of CH₃COCl / presumably on III/; VI is also obtained by the reaction of IV with HO(CH₂) 4 CN (VIII), synthesized in turn by the action of HCONH₂ on III. The reaction of III with PBr₃, and with SOCl₂ gives respectively Br(CH₂) 4 CN (IX) and Cl(CH₂) 4 CN (X) (the latter is also obtained from VIII and SOCl₂); when X is treated with KCN, CN(CH₂) 4 CN (XI) is obtained. Preparation: 0.075 mol IV are added with cooling to a solution of 0.05 mol II in 5 ml pyridine; the reaction mixture is allowed to stand 24 hrs (N 20°)

Card : 2/8

27

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 4688.

after which it is distilled, giving V, yield 71%, bp 67-70°/7mm. V (3.88 gms) is also prepared from 0.06 mol I and 0.08 mol IV (~ 100°, 1 hr). To a solution of 0.32 mol NH; OH.HCl in 20 ml water are added successively a solution of CH; ONa (prepared from 0.27 g-atom Na and 110 ml CH; OH) and 25.20 gms II, the reaction mixture is heated (1 hr, 50-55°), cooled and filtered. The solvent is distilled off from the filtrate, the residue is refluxed twice with CHCl3 (250 and 50 ml); III is obtained, yield 88.5%, mp 89-92° (from a 20% solution of NaCl). 0.24 mol I are added dropwise (~ 20 min, 20-30°) to 200 ml of an aqueous solution of 0.3 mol NH; OH.HCl (pH 2.5-3.0); after 20-30 min the solution is neutralized with

Card: 3/8

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4688.

a calculated amount of NaHCOj, 40 gms NaCl are added, and the solution is extracted with 160 ml iso-CfH; OH; the extract gives III, yield 73.5% (from 20% NaCl solution). 0.08 mol HCONH; is added dropwise at 130-135° to 0.04 mol III, the solution is heated for an additional 1.5 hr, cooled, and extracted with CfH; (8 x 10 ml); VIII is obtained, yield 51.5%, bp 115-120°/12mm; VII is produced from 0.019 mol VIII and 0.039 mol IV (refluxed for 1 hr), yield 79%, bp 115-117/11mm. VII is also obtained in yields of 78% from 0.04 mol III and 20 ml IV (1 hr, 135°) or from 0.04 mol III and 0.1 mol CH3COCl (35 min). 0.03 mol III is added to a mixture of 3 ml abs pyridine and 0.07 mol IV; the reaction mixture is distilled after 2dhys

Card : 4/8

28

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 4688.

(~20°) and VII is obtained, yield 2.25 gms, together with VI, yield 0.55 gm, bp 143-150°/7-8 mm, mp 72-73°. 0.12 mol III in 15 ml C.H. and 0.3 mol SOCl₂ (~0°) are heated (80-85°, 1 hr), and the solution is evaporated; X is obtained, yield 81%, bp 90-92°/llmm. Using a similar procedure, 0.02 mol VIII and 0.02 mol SOCl₂ also give X, yield 61.5%. A mixture of 0.04 mol III and 10 ml C.H. is added dropwise at 55° to a fraction of a solution of 0.047 mol Fbr3 in 5 ml C.H. (solution A), the mixture is heated to 80° (over a bath), and the remainder of solution A is added over 30 min; 20 gms ice and 4.5 gms NaCl are added; IX is isolated, yield 29%, bp 106°/llmm. 0.04 mol X is added to a mixture of 0.05 mol KCN and 50 ml tetrahydrofurfurol

Card : 5/8

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Abs Jour: Ref Zhur-Khin., No 2, 1959, 4688.

(XII) and the solution is heated (4 hrs, 120-125) (over a bath)); on booling XI is obtained, yield 78.5%, bp 145-1470/llmm.

II. The reaction of X with RC/H4ONa gives RC/H4O(CH₂)4R' (XIII, R' = CN; a, R = H; b R = 0-NO; c, R = n-NO; d, R = p-NO); the saponification of XIIIb-d gives the corresponding nitro acids (XIIIe-g, R' + COOH) which on hydrogenation over Pd/C give the corresponding amino acids (XIIIh-k). The latter on polycondensation give substances of the composition (C//H/5NO₂)n (XIVa-c). 0.018 nol C/H₂OH is added to a solution of 0.0178 g-atom Na in 15 nl XII and the resulting solution is treated at ~ 20 with a solution of

card : 6/8

29

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 4688.

0.017 mol X in 2 ml XII. The mixture is heated (1.5 hrs, 90-100°; 1 hr, 120-125°) giving XIIIa, yield 77%, bp 162-163°/12 mm, mp 30°. A mixture of 2.86 gms XIIIb, 15 ml CH3COOH, and 15 ml conc HCl is refluxed for three hrs, giving XIIIe, yield 82.5%, mp 78-80° (from benzene). A solution of 1 gm XIIIe in 40 ml alcohol is hydrogenated over 0.1 gm Pd/C (~ 20°, 760mm, ~ 20° min) giving XIIIh, yield 90.5%, mp 116-118° (from alc). Using a procedure similar to that used for XIIIa, e, and h, the following XIII have been prepared (the product, yield in %, mp in °C (solvent) are given in that order): XIIIb, 76, 36-38 (alc); XIIIc, 82, 15-16 (alc); XIIIb, 76, 37-39 (alc); XIIIf, 85, 78-80 (benzene); XIIIg, 77,

Card : 7/8

HUNGARY/Organic Chemistry. Synthetic Organic Chemistry.

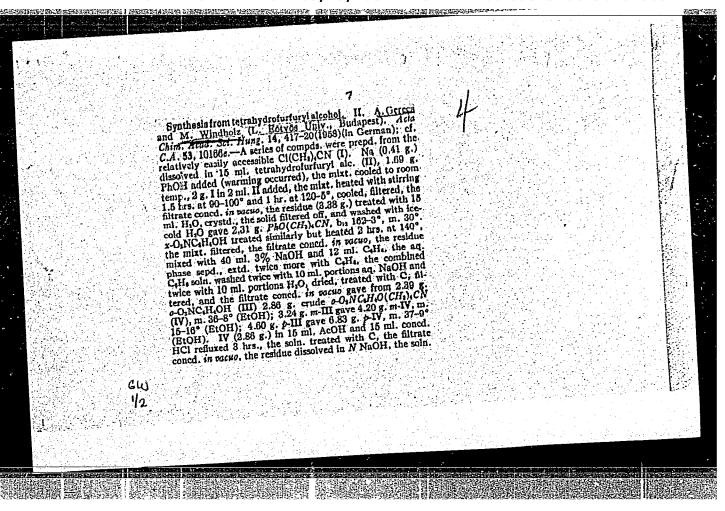
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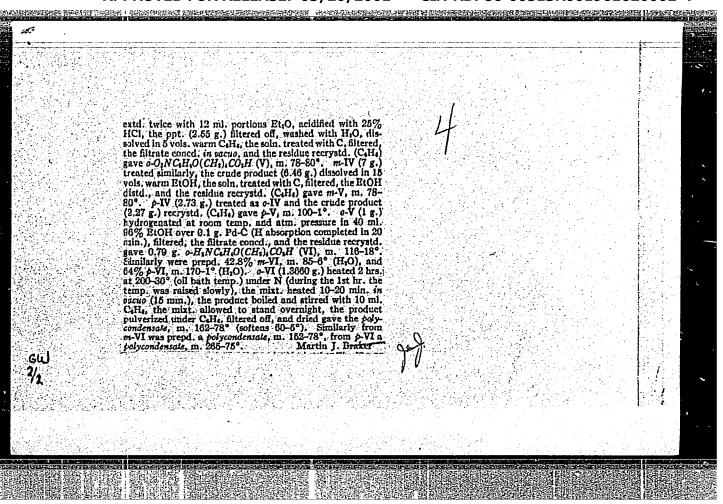
Abs Jour: Ref Zhur-Khin., No 2, 1959, 4688.

100-101 (benzene); XIII i, 42.8, 85-86 (water); XIIIk, 64, 170-171 (water). 1.366 gm XIIIh is heated in a stream of N₂ for 2 hrs at 200-230° and then for 10-20 min in vacuum (15 mm); refluxing with 10 ml C₆H₆ gives XIVa, mp 162-178°, mol wt 1200, 7 ~ 1.03 (0.5 gm in 100 ml m-cresol, 20°). Using asimilar procedure, XIVb is obtained from 1.0488 gm XIIIi; mp 152-178° (after treatment with alcohol), mol wt 1650, 7 / 1.085. Likewise 1.0051 gm XIIIk give XIVc, mp 265-275°, the molecular weight of which could not be determined. -- V. Zaretskiy.

Card : 8/8

30





: HUNGARY Country : Organic Chemistry. Synthetic Organic Chemistry Category No. 15379 : Ref Zhur - Khim., No 5, 1959, Abs. Jour : Gerecs, A.; Windholz, M. Author : Hungarian AS` Institut. : Syntheses from Tetrahydrofurfuryl Alcohol. III Title : Acta chim. Acad. scient.hung., 1958, 16, No 3, Orig Pub. 3**63-**368 : 6-Chlorovaleronitrile (I) is condensed with Abstract tetrahydrofurfuryl alcohol (II) and ethylene glycol (III) in &-R-valeronitriles (IVa, b, where a is R = tetrahydrofurfuryloxy, b is R= 2-oxyethoxy), transformed by the reactions with methanol HCl (24 hours, 20°) in methyl ethers of the corresponding &-R-valeric acids, b.p. 138-145°/2.5 mm. and 135-138°/10 mm. During condensation of T. 14th brancourt ing condensation of I with hydroquinone (V), δ -(p-oxyphenoxy)-valeronitrile (VI) and di-

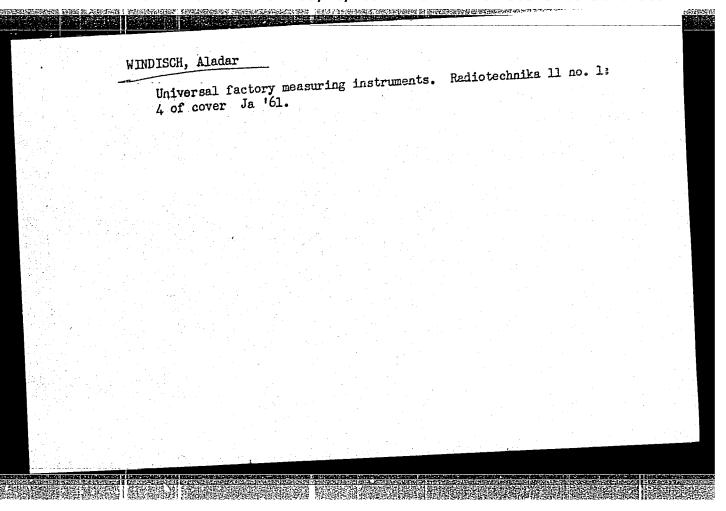
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	Country Catogory	G :	
	Abs. Jour	: Ref Zhur - Knim., No 5, 1959, No. 15379	
	Author Institut. Titlo		
	Orig Pub.		
	Abstract cont'd.	: (4-cyano-n-butyl) ether of hydroquinone (VII) are obtained, the relative quantity of which can vary depending on the ratio of the original substances. VI and VII are hydrolyzed with a boiling mixture of CH ₃ COOH and concentrated HCl (1:1) in \$\delta\$-(p-oxyphenoxy)-valeric acid (VIII), yield 76%, m.p. 142-145° (from water), and di-(4-carboxy-n-butyl) ether of hydroquinone (IX), yield 80%, m.p. 147-150° (from alcohol), and are transformed (see above) into	
	Card:	2/5	

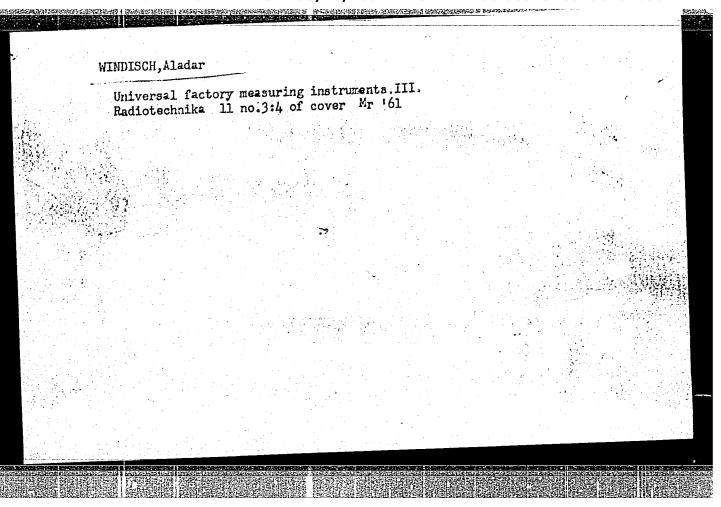
G Country Category No. 15379 : Ref Zhur - Khim., No 5, 1959, Abs. Jour Author Institut. Title Orig Pub. :methyl ethers of VIII, yield 82%, m.p. 71-720 (from CCl₁₁) and of IX, yield 85%, m.p. 55-560 Abstract cont'd. (from CH30H). IX is condensed with III by heating in an N₂ atmosphere in the presence of (CH₃COO)₂Ca (two hours, 180°; two hours, 220°/ 1 mm.; two hours, 250°; one hour, 270°) into a substance with m.p. 120-122°; from IVb a noncrystallizing substance was obtained under the same conditions. 0.109 mole of I is added to a solution of 0.109 gram-atom of Na in 44 ml. 3/5 card:

Country G Catogory : Ref Zhur - Khim., No 5, 1959, Abs. Jour No. 15379 Author Institut. Titlo Orig Pub. cof II, heated for 1.5 hours at 140°, the solution is distilled and IVa is obtained, yield 50%, b.p. 155-160°/16-17 mm. IVb is obtained analogously, yield 49%, b.p. 150-155°/10 mm. 0.25 mole of V and 0.05 mole of I are added to a solution of 0.05 gram-atom of Na in 40 ml. of II, heated for 1.5 hours at 140° and, after Abstract cont'd. cooling. VII is separated out, yield 57%, m.p. 121-123 (from alcohol); mother liquor is distilled, the residue triturated with 20 ml. of Card: 4/5

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001961620002-4"

Country Category			G	
Abs. Jour	Ref Zhur - Khim., No 5, 1959,	No. 15379		-
Author Institut. Title				
Orig Pub.				
Abstract contid.	water and VI is separated m.p. 92-940 (from water). Zhur-Khim, 1959, 4688.	out, yield 30 Part II, see	9.7%, Ref	
	Znur-Knim, 1959, 4600.			
	Znur-Knim, 1959, 4600.			
	Znur-Knim, 1959, 4600.			





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4 of cover Ap 161.
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